

LISTING OF THE CLAIMS

1. – 8. (Cancelled)

9. (Currently Amended) A method for producing material comprising a radar emissions absorbing material ~~carbon foam manufactured by a process~~ comprising the steps of:

heating particulate coal in a pressurized non-oxidizing atmosphere having a pressure in the range of about 50 psi to about 500 psi, to a temperature in the range about 300° C to about 600° to form a green foam; and

carbonizing said green foam to form a carbonized foam by heating said green foam to a maximum temperature ranging from about 600°C to about 800°C, and soaking at this temperature for about 2 to about 30 minutes, ~~therby~~ thereby producing a carbonized foam which exhibits a dielectric constant in the range of about 2 to about 6 and an electrical resistivity in the range of about $1.E^{+00}$ ohm-cm to about $1.E^{+06}$ ohm-cm.

10. (Currently Amended) The ~~material~~ method of claim 9 wherein said particulate coal exhibits a free swell index of between about 3.75 and about 4.5.

11. (Currently Amended) The ~~material~~ method of claim 9 wherein said particulate coal exhibits a free swell index in the range of about 3.5 to about 5.

12. – 18. (Canceled)

19. (New) A method for producing a radar emissions absorbing material, comprising the steps of:

heating a green carbon foam to a maximum temperature ranging from about 600°C to about 800°C; and

soaking at this temperature for about 2 to about 30 minutes, thereby producing a carbonized carbon foam which exhibits a dielectric constant in the range of about 2 to about 6 and an electrical resistivity in the range of about $1.E^{+00}$ ohm-cm to about $1.E^{+06}$ ohm-cm.

20. (New) The method of claim 19, wherein the temperature ranges from about 600°C to about 700°C.

21. (New) The method of claim 19, wherein the step of soaking ranges from about 5 minutes to about 30 minutes.

22. (New) A method for absorbing radar emissions comprising the steps of:
providing a carbon foam which exhibits a dielectric constant in the range of about 2 to about 6 and an electrical resistivity in the range of about $1.E^{+00}$ ohm-cm to about $1.E^{+06}$ ohm-cm;
and

contacting said carbon foam with radar emissions.

23. (New) The method of claim 22, wherein said radar emissions is in the megahertz range.

24. (New) The method of claim 22, wherein said radar emissions is in the gigahertz range.